

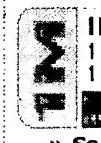
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Zier, L.; Fischer, W.; Brockner, F.;
Communications Magazine, IEEE, Volume: 42, Issue: 3, Mar 2004
Pages:88 - 95

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1 A varying per user profile based location update strategy for cellular networks

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**Intelligent handover and location updating control in third generation mobile network**

Kuo-Hsing Chiang Shenoy, N. Asenstorfer, J.

Inst. for Telecommun. Res., South Australia Univ., The Levels, SA, Australia;
This paper appears in: **Global Telecommunications Conference, 1998. GTC '98. The Bridge to Global Integration. IEEE**

Meeting Date: 11/08/1998 - 11/12/1998

Publication Date: 8-12 Nov. 1998

Location: Sydney, NSW Australia

On page(s): 1963 - 1969 vol.4

Volume: 4

Reference Cited: 11

Number of Pages: 6 vol. (lxiii+lii+3773)

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Abstract:

The next generation mobile networks, such as the Universal Mobile Telecomm System (UMTS), are proposed to be integrated with the fixed network. There fixed network must be able to handle related mobile-specific functions. The in network (IN) will play a key role for integration between mobile and fixed net using the intelligent network concept, a mobility function could be viewed as a service. Each mobility function could be implemented in a modular way, sepa switches and implemented at the IN service control platform. This will avoid s switch upgrading and reduce the switch complexity and cost. We describe how could be used to support mobility functions in an integrated mobile and fixed We propose a functional entity called a **profile** record function (PRF) which is **database** using a cache scheme which assists the handover control proposed advantages envisaged by using a PRF are faster handover and reduced signal traffic/load in the core network. We also propose an enhanced basic call state (BCSM) and mobile-specific functional and state models separated from BCSM mobility management

Index Terms:

B-ISDN cache storage cellular radio database management systems intelligent networks land mobile radio telecommunication computing telecommunication network management B-ISDN IN service control platform UMTS

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